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L6	L4 and ( apxIA and apxIIA)	4
L5	L4 and ( ApxI and ApxII)	4
L4	L2 and Actinobacillus	55
L3	L2 Actinobacillus	2772
L2	424/200.1	510
·L1	424/200.100	0
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- ☐ 1. <u>20060051371</u>. 17 Nov 03. 09 Mar 06. Live attenuated vaccine against porcine pleuropneumonia. Ribas; Jaume Pinol, et al. 424/200.1; 435/252.3 435/471 A61K39/02 20060101 C12N1/21 20060101 C12N15/74 20060101
- 2. <u>20040202678</u>. 10 Mar 04. 14 Oct 04. Actinobacillus pleuropneumoniae subunit vaccine. Segers, Ruud Philip Antoon Maria. 424/200.1; 435/252.3 435/471 536/23.7 A61K039/02 C07H021/04 C12N009/14 C12N001/21 C12N015/74.
- 3: 6783764. 31 Aug 99; 31 Aug 04. Actinobacillus pleuropneumoniae subunit vaccine. Segers; Ruud Philip Antoon Maria, et al. 424/236.1; 424/184.1 424/192.1 424/193.1 424/197.11 424/234.1 424/278.1 424/9.2 435/220 435/235.1 435/340 930/200. A61K049/00 A61K039/00 A61K039/38 A61K039/385 A61K039/02 .
- 4. <u>6019984</u>. 23 Dec 96; 01 Feb 00. Bacterial preparations, method for producing same, and their use as vaccines. MacInnes; Janet, et al. 424/255.1; 424/184.1 424/278.1 424/823 424/824 424/825 424/826 424/827 424/828 424/829 424/93.2 424/93.4 424/93.48 435/243. A61K039/102 A61K039/02 A01N063/00 C12N001/00.
- 5. <u>6013266</u>. 09 Apr 98; 11 Jan 00. Live attenuated bacteria of the species Actinobacillus pleuropneumoniae. Segers; Ruud Philip Antoon Maria, et al. 424/234.1; 424/186.1 424/192.1 424/199.1 424/93.2 435/252.33 435/29 435/317.1 435/320.1 435/325 435/6 435/69.1 435/69.7. A61K039/085 A61K039/12 A61K039/00 A01N063/00.
- 6. WO2004045639A. Obtaining an immunogenic, non-hemolytic strain of Actinobacillus pleuropneumoniae comprises modifying a segment of apxIA gene and optionally apxIIA gene that codes a transmembrane domain of hemolytic and cytolytic Apx exotoxins. BRU VIRGILI, S, et al. A61K039/02 A61K039/102 A61P011/00 A61P031/00 C07K014/195 C07K014/285 C12N001/20 C12N001/21 C12N001/34 C12N001/36 C12N015/74.

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1. 20060051371. 17 Nov 03. 09 Mar 06. Live attenuated vaccine against porcine pleuropneumonia. Ribas; Jaume Pinol, et al. 424/200.1; 435/252.3 435/471 A61K39/02 20060101 C12N1/21 20060101 C12N15/74 20060101
2. 20050238657. 12 Jan 05. 27 Oct 05. Defective entities and uses therefor. Cornford-Nairn, Rene, et al.

424/200.1; 435/252.3 C12N001/21 A61K039/02. 3. 6180112. 22 Apr 99; 30 Jan 01. Pasteurella haemolytica vaccine. Highlander; Sarah K., et al. 424/255.1; 424/200.1 424/234.1 424/235.1 424/236.1 435/252.3 435/69.1 536/23.7 536/24.1. A61K039/102 .

4. <u>5543304</u>. 14 Apr 94; 06 Aug 96. 43 Kd protein vaccine and method for the production thereof. Mulks; Martha H., et al. 435/69.3; 424/200.1 424/234.1 435/320.1 435/69.1. C12N015/31 C12P021/00 C12P021/06.

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	L4	L2 and Actinobacillus	55
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()
☐ 11. <u>20050106176</u> . 24 Aug 04. 19 May 05. Regulated antigen delivery system (RADS). Curtis, Roy III, et al. 424/200.1; 435/252.3 435/471 A61K039/02 C12N009/10 C12N015/74 C12N001/21.
12. 20040208897. 15 Jul 03. 21 Oct 04. Recombinant bacterial system with environmentally limited viability. Curtiss, Roy III, et al. 424/200.1; 435/252.33 435/488 A61K039/02 C12N015/74 C12N001/21.
13. 20040202678. 10 Mar 04. 14 Oct 04. Actinobacillus pleuropneumoniae subunit vaccine. Segers, Ruud Philip Antoon Maria. 424/200.1; 435/252.3 435/471 536/23.7 A61K039/02 C07H021/04 C12N009/14 C12N001/21 C12N015/74.
14. 20040156820. 08 May 03. 12 Aug 04. Adjuvant combination formulations. Hagen, Michael. 424/85.1; 424/186.1 424/200.1 514/62 A61K039/12 A61K039/02 A61K038/19 A61K038/20.
15. 20040120970. 08 Dec 03. 24 Jun 04. Use of bacterium for manufacture of a vaccine. Jacobs, Antonius Arnoldus Christiaan, et al. 424/200.1; A61K039/02.
☐ 16. 20040109875. 20 Jan 04. 10 Jun 04. Pro-apoptotic bacterial vaccines to enhance cellular immune responses. Kernodle, Douglas S., et al. 424/200.1; 435/252.3 A61K039/02 C12N001/21.
17. 20040033238. 27 Nov 02. 19 Feb 04. Selectable genetic marker for use in pasteurellaceae species. Mulks, Martha H., et al. 424/200.1; 435/252.3 A61K039/02 C12N001/21.
☐ 18. <u>20030202983</u> . 29 May 03. 30 Oct 03. Lawsonia intracellularis proteins, and related methods and materials. Rosey, Everett L 424/190.1; 424/200.1 435/252.3 435/320.1 435/69.3 530/350 536/23.7 A61K039/02 C07H021/04 C12P021/02 C12N001/21 C07K014/195 C12N015/74.
19. 20020086032. 09 Aug 01. 04 Jul 02. Producing antibodies with attenuated bacteria with altered DNA adenine methylase activity. Mahan, Michael J., et al. 424/200.1; 435/252.3 A61K039/02 C12N001/21.
☐ 20. <u>20020081317</u> . 09 Aug 01. 27 Jun 02. Bacteria with altered DNA adenine methylase (DAM) activity and heterologous epitope. Mahan, Michael J., et al. 424/200.1; 435/252.3 435/320.1 A61K039/02 C12N001/21 C12N015/74.
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☐ 39. <u>6399074</u> . 24 Jul 98; 04 Jun 02. Live attenuated salmond Roland; Kenneth L 424/200.1; 424/184.1 424/93.2 435/252.1 4 A61K039/00 A61K048/00 C12N001/20 C12N015/00 .	
☐ 38. <u>6410021</u> . 22 Apr 98; 25 Jun 02. Vaccines of pasteurella Troy E., et al. 424/184.1; 424/200.1 424/235.1 424/255.1 424/25 A61K039/102 A61K045/00 A61K039/12 C12N001/36.	
☐ 37. 6461618. 21 Oct 99; 08 Oct 02. 74 kilodalton outer me Chen; Dexiang, et al. 424/251.1; 424/184.1 424/185.1 424/190.1 435/69.1 435/69.3 435/69.7 536/23.1 536/23.7 536/24.3 536/24. C12P021/06 C12N001/20 .	424/200.1 435/252.3 435/320.1 435/325
36. 6610307. 23 Jun 98; 26 Aug 03. Immunity against past Christopher Thomas, et al. 424/255.1; 424/184.1 424/200.1 424/424/236.1 424/93.2 424/93.4 435/69.3. A61K039/102 A61K039	201.1 424/203.1 424/234.1 424/235.1
☐ 35. <u>6764687</u> . 09 Jun 99; 20 Jul 04. Live attenuated bacteria 424/258.1; 424/200.1 424/234.1 424/241.1 435/243 435/252.3.	
☐ 34. <u>6770275</u> . 30 May 97; 03 Aug 04. Live attenuated RTX pasteurellaceae. Segers; Ruud Philip Antoon Maria, et al. 424/93 424/234.1 424/235.1 424/236.1 424/93.4 435/245 435/252.3 435 A61K039/116 A61K039/00 .	3.2; 424/184.1 424/200.1 424/201.1 424/203.1
☐ 33. <u>6780405</u> . 28 Apr 00; 24 Aug 04. Regulated antigen del 424/93.1; 424/200.1 424/93.2 424/93.4 435/252.3 435/320.1. A0 C12N001/20 C12N015/00 .	ivery system (RADS). Curtiss, III; Roy, et al. 01N063/00 A01N065/00 A61K039/02
☐ 32. <u>6783764</u> . 31 Aug 99; 31 Aug 04. <u>Actinobacillus</u> pleuro Philip Antoon Maria, et al. 424/236.1; 424/184.1 424/192.1 424/435/220 435/235.1 435/340 930/200. A61K049/00 A61K039/00	/193.1 424/197.11 424/234.1 424/278.1 424/9.2
31. <u>6793927</u> . 15 Dec 98; 21 Sep 04. Construction of Pasteu et al. 424/255.1; 424/184.1 424/200.1 424/235.1 424/256.1 424/24040 435/471 435/476 536/23.7. A61K039/102.	urella haemolytica vaccines. Briggs; Robert E., 93.2 435/243 435/252.1 435/252.3 435/320.1
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Rodríguez-Barbosa I, Rodríguez-Ferri EF.  The RTX haemolysins ApxI and ApxII are major virulence factor	's of the swine
The RTX haemolysins ApxI and ApxII are major virulence factor	s of the swine
pathogen Actinobacillus pleuropneumoniae: evidence from mutat analysis.  Mol Microbiol. 1994 Oct;14(2):207-16. PMID: 7830567 [PubMed - indexed for MEDLINE]	ional
8: Jansen R, Briaire J, Kamp EM, Gielkens AL, Smits MA. Relate	ed Articles, Links
Structural analysis of the Actinobacillus pleuropneumoniae-RTX-	-toxin I
(ApxI) operon.	
Infect Immun. 1993 Sep;61(9):3688-95. PMID: 8359891 [PubMed - indexed for MEDLINE]	
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The RTX haemolysins Apxl and Apxll are major virulence factors of the swine pathogen Actinobacillus pleuropneumoniae: evidence from mutational analysis.  Tascón RI, Vázquez-Boland JA, Gutiérrez-Martín CB, Rodríguez-Barbosa I, Rodríguez-Ferri EF.  Unidad de Microbiología e Inmunología, Facultad de Veterinaria, Universidad de León, Spain.	Related Links  Molecular investigation of the role of Apxl and Apxll in the virulence of Actinobacillus pleuropneumoniae sejtyligpet@Pathog. 1995]  Knock out mutants of Actinobacillus pleuropneumoniae serotype 1 that are devoid of RTX toxins do not activate or kill porcine neutrophils. [Infect Immun. 1995]
The involvement of the RTX haemolysins (ApxI and ApxII) of the swine pathogen Actinobacillus pleuropneumoniae in virulence was investigated using haemolysin-deficient mutants constructed by a mini-Tn10 mutagenesis procedure. Two types of haemolysin mutant with single insertions of the transposon were obtained from a serotype 1 strain producing both ApxI and ApxII. One presented a complete loss of haemolytic activity because of the absence of ApxI and ApxII production. The other displayed weaker haemolysis than the wild type and produced only ApxII. The chromosomal regions flanking mini-Tn10 were cloned and sequenced. In the non-haemolytic mutant, the transposon had inserted in apxIB, a gene involved in the exportation of ApxI and ApxII toxins. The weakly haemolytic mutant resulted from the	Association of the CAMP phenomenon in Actinobacillus pleuropneumoniae with the RTX toxins ApxIFAMB Midrapid Lett. 1994]  Both ApxI and ApxII of Actinobacillus pleuropneumoniae serotype 1 are necessary for full virulence. [Vet Microbiol. 2004]  Actinobacillus pleuropneumoniae RTX-toxins: uniform designation of haemolysins, cytolysins, pleurotox[d] @chtMicropins*1993]  » See all Related Articles

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The RTX haemolysins ApxI and ApxII are major virulence factors of the swine pathogen Actinobacillus pleuropneumoniae: evidence from mutational analysis.

#### Tascón RI, Vázquez-Boland JA, Gutiérrez-Martín CB, Rodríguez-Barbosa I, Rodríguez-Ferri EF.

Unidad de Microbiología e Inmunología, Facultad de Veterinaria, Universidad de León, Spain.

The involvement of the RTX haemolysins (ApxI and ApxII) of the swine pathogen Actinobacillus pleuropneumoniae in virulence was investigated using haemolysin-deficient mutants constructed by a mini-Tn10 mutagenesis procedure. Two types of haemolysin mutant with single insertions of the transposon were obtained from a serotype 1 strain producing both ApxI and ApxII. One presented a complete loss of haemolytic activity because of the absence of ApxI and ApxII production. The other displayed weaker haemolysis than the wild type and produced only ApxII. The chromosomal regions flanking mini-Tn10 were cloned and sequenced. In the non-haemolytic mutant, the transposon had inserted in apxIB, a gene involved in the exportation of ApxI and ApxII toxins. The weakly haemolytic mutant resulted from the disruption of the structural gene for ApxI. Both mutations in the apxI operon were associated with a significant loss of virulence for mice and pigs, demonstrating that haemolysins are involved in A. pleuropneumoniae pathogenicity. The non-haemolytic mutant was apathogenic and the weakly haemolytic mutant retained some virulence for pigs, suggesting that both ApxI and ApxII are needed for full virulence.

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Association of the CAMP phenomenon in Actinobacillus pleuropneumoniae with the RTX toxins ApxI[FEM8 Midr&biol/Lett. 1994]

Both Apxl and Apxll of Actinobacillus pleuropneumoniae serotype 1 are necessary for full virulence. [Vet Microbiol, 2004]

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2. <u>6991786</u> . 30 Aug 00; 31 Jan 06. Anti-microbial biotherapeutic agents: alternatives to conventional pharmaceutical antibiotics. Filutowicz; Marcin S 424/93.2; 424/41 424/42 424/93.4 435/320.1. A61K48/00 20060101 C12N15/00 20060101 C12P1/00 20060101 C12P39/00 20060101 A01N63/00 20060101 .
☐ 3. 6713071. 14 Oct 99; 30 Mar 04. Proteins from actinobacillus pleuropneumoniae. Ankenbauer; Robert G., et al. 424/234.1; 424/190.1 424/192.1 530/350. A61K039/02.
4. <u>6593114</u> . 20 Oct 97; 15 Jul 03. Staphylococcus aureus polynucleotides and sequences. Kunsch; Charles A., et al. 435/91.41; 435/252.3 435/254.11 435/257.2 435/320.1 435/325 435/91.4 536/23.7. C12N015/64 C07H021/04.
5. 6019984. 23 Dec 96; 01 Feb 00. Bacterial preparations, method for producing same, and their use as vaccines. MacInnes; Janet, et al. 424/255.1; 424/184.1 424/278.1 424/823 424/824 424/825 424/826 424/827 424/828 424/829 424/93.2 424/93.4 424/93.48 435/243. A61K039/102 A61K039/02 A01N063/00 C12N001/00.

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